

## ABSTRACT

### STRUCTURALLY VARIABLE STENTS

5 The stent has at least two different patterns along its longitudinal length such as a closed cell and an open cell design. The stent is made from nickel/titanium, titanium, stainless steel or a noble metal. The different patterns are joined by varying articulations including a W-pattern and S-patten. The stent has at least two coatings over the base structure, the coating depth not exceeding ten microns.

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